

DAFTAR PUSTAKA

- Alikodra, H.S. 2002. *Pengelolaan Satwa Liar*. Jilid 1. Institut Pertanian Bogor. Bogor.
- Altringham, J.D. 1996. *Bats Biology and Behaviour*. Oxford University Press. New York.
- Andersson, M., 1994. *Sexual selection* (Vol. 72). Princeton University Press.
- Azmy, S. B. N. 2013. *Automatic Bat Counting And Identification Of Bat Species Using Terrestrial Laser Scanning*. Thesis. Faculty Of Bioscience And Medical Engineering. Universiti Teknologi Malaysia. Malaysia.
- Begon, M., Harper, J.L. & Townsend, C.R. 1996. *Ecology*. Blackwell Science, Oxford.
- Ceave, A. 1999. *Bats a Portrait of The Animal World*. TODTRI Book publishers. New York.
- Corbert, G. B. dan J. E. Hill. 1992. *The Mammals of The Indomalaya Region: A Systematic Review*. Oxford University Press. Oxford.
- Dietz, C. and von Helversen, O. 2004. *Illustrated identification key to the bats of Europe*. Germany.
- Djuri, S. & W. Madya. 2009. *Mengenal dunia kelelawar*. Balai Diklat Kehutanan Bogor. Bogor.
- De Jong, C., Field, H., Newman, S.H., Epstein, J.H., 2011. Emerging infectious diseases. In S.H. Newman, H.E. Field, C.E. de Jong, J.H. Epstein, eds. *Investigating the role of bats in emerging zoonoses: Balancing ecology, conservation and public health interest*. Rome: FAO Animal Production and Health Manual, pp. 1–13.
- Epsinasa, L & Vuong, N.H. 2008. *A new spesies of cave adapted Nicoletiid (Zygentoma: Insecta) from Sistema Huautla*. Oaxaca, Mexico: The tenth.
- Estrada, A., Coates-Estrada, R & Meritt, D. J. 2001. *Bat Species Richness and Abundance in Tropical Rain Forest Fragments and In Agricultural Habitats at Los Tixtlas*. *Ecography* 16, 309-318. Mexico.
- Feldhamer GA, CD Lee, HV Stephe and FM Joseph. 1999. *Mammalogy: Adaption, diversity, and ecology*. McGraw Hill. New York.
- Francis, C.M. 2008. *A Field Guide to the Mammals of South East Asia*. New

Holland.

- Gillieson, D., 1996, *Caves: Processes, Development, and Management*, Blackwell. Oxford.
- Hamilton, R., Weigel, D., King, A., Mitchell, B. and Grell, A. 2009. *Using Feature Analyst to Automate Counts of Photographed Indian Bats*. US Remote Sensing Application Centre. United States.
- Haryono, E.. 2001. *Nilai Hidrologi Bukit Karst*. Seminar Nasional Eko-Hidrolik. Teknik Sipil Universitas Gadjah Mada, Yogyakarta 28-29 Maret 2001. Yogyakarta.
- Heideman and Uzzurum. 2003. *Seasonality and synchrony of reproduction in three species of nectarivorous Philippines bats*. BMC Ecology. 3/11: 341-354.
- Heaney, L.R., Gonzales, P.C., Uzzurum, R.C.B. and Rickart, E.A. 1991. *The mammals of Cataduanes Island: Implications for the biogeography of small land-bridge islands in the Philippines*. Proceedings of the Biological Society of Washington 104(2): 399-415.
- Ihdia, W. 2006. *Variasi morfologi antar populasi kelelawar Chironax melanocephalus di Indonesia*. Skripsi. Fakultas Matematika dan Ilmu Pengetahuan Alam. Institut Pertanian Bogor, Bogor.
- Indriyanto. 2010. *Ekologi Hutan*. Bumi Aksara. Jakarta.
- Istika, W. P. 2008. *Morfometri ornament gua(Speleothem) di kawasan karst buniayu, sukabumi Jawa Barat*. Departemen Geografi. Fakultas Matematika dan Ilmu pengetahuan Alam. Universitas Indonesia.
- IUCN. 2008. IUCN Red List of Threatened Species. <http://www.iucnredlist.org/>.retrieved on 01 Juli 2009.
- Jennings, J.N. 1985. *Karst Geomorphology*. Basil Blacwell Oxford.
- Kingston, T., B.L Liem., dan Z. Akbar. 2006. *Bats of Krau Wildlife Reserve*. Universiti Kebangsaan Malaysia. Bangi.
- Ko, R.K.T. 1997. *Introduksi Kartospeleologi*. Indonesian Karst Environment Community. Bogor.
- Kusumayudha, S., 2005. *Hidrogeologi Karst dan Geometri Fraktal*, Yogyakarta: Mitra Gama Widya.
- Kunz,T.H. 1982. *Roosting ecology of bats*. Pages 1–56 in T. H. Kunz,editor . Ecology of Bats. Plenum Press,New York ,USA.

- Kunz, T. H. dan E. D. Pierson, 1991. *Bats of The World : A Introduction*. The John Hopkins University Press. London.
- Kunz, T H., Anthony, E. L. P. 1996. *Variation in the Time of Nightly Emergence Behaviour in the Little Brown Bat, Myotis lucifugus (Chiroptera Vespertilionidae)*. Museum of Texas Tech University, Texas.
- Kunz, T. H., dan L. F. Lumsden. 2003. *Ecology of Cavity and Foliage Roosting bats*. The University of Chicago Press. Chicago and London.
- Krebs, Charles J. 2009. *Ecology: The Experimental Analysis of Distribution and Abundance*. Sixth Edition. Pearson Education Inc. United States.
- Lekagul, B. dan J. A. Mcneely. 1977. *Mammals of Thailand*. The Association for the Conservation of Wildlife. Thailand.
- Maharadatunkamsi, Hisheh S, Kitchener DJ, & Schimitt LH, 2003, Relationships Between Morphology, Genetics, and Geography in the Cave Fruit Bat *Eonycteris Spelaea* (Dobson, 1897) from Indonesia. *Biol. Joul. Linn. Soc.* 79: 511-522.
- Maryanto, I. dan Maharadatunkamsi. 1991. *Kecenderungan jenis jenis kelelawar dalam memilih tempat bertengger pada beberapa gua di Kabupaten Sumbawa*. *Media Konservasi*. 3:29-34.
- Maryanto, I & Higashi, S., 2011. *Comparison of zoogeography among rats, fruit bats and insectivorous bats on Indonesian Islands*. *TREUBIA*, hlm.33-52.
- Maryati., Kartono, A.P & Maryanto, I. (2008). *Kelelawar Pemakan Buah Sebagai Polinator yang Diidentifikasi Melalui Polen yang Digunakan Sebagai Sumber Pakannya di Kawasan Sektor Linggarjati, Taman Nasional Ciremai Jawa Barat*. *Jurnal Biologi Indonesia*, 4(5), 335-347.
- Mickleburgh, S. P., Hutson, A. M. & Racey, P. A. (Eds.). (1992). *Old World Fruit Bats: An Action Plan for Their Conservation*. IUCN, Gland, Switzerland: IU-CN/SSC Chiroptera Specialist Group.
- Mildenstein, T., & de Jong, C., 2011. Natural history, ecological and socio-economic value of Bats. In S.H. Newman, H.E. Field, C.E. de Jong, J.H. Epstein, eds. *Investigating the role of bats in emerging zoonoses: Balancing ecology, conservation and public health interest*. Rome: FAO Animal Production and Health Manual, pp. 15–27.
- Millsbaugh, J.J. and J. M. Marzluff. 2001. *Radio Tracking and Animal Populations*. Academic Press, San Diego.

- Mould, A. 2012. *Cave Bats Of the Central West Coast and Southern Section Of the Northwest Panay Peninsula, Panay Island, The Philippines*. Journal Of Threatened Taxa, 4/11: 2993-3028.
- Notosusanto. 2009. *Studi literatur karakter ukuran tubuh ayam kampung*. Diakses tanggal 16 maret 2014, (<http://duniaveteriner.com/2009/12/studi-literatur-karakter-ukuran-tubuh-ayamkampung/> print. Last modified in 2009)
- Nowak, R.M. dan J.L. Paradiso. 1983. *Walker's Mammals of the World, 4th Edition*. The Johns Hopkins University Press.
- Nowak, R. M. 1995. *Bats of The World*. The Johns Hopkins University Press. Baltimore & London.
- Nugroho, P dan P. Sukandar. 2008. *Distribusi jenis kelelawar (Pteropodidae) pada Berbagai tipe penutupan lahan di sekitar Taman Nasional Kerinci Seblat (TNKS)*. Jurnal Biologi Indonesia. Hal.121-134.
- Nurfitrianto, H., Widowati, B., Ulfi, F., 2013. *Kekayaan Jenis Kelelawar (Chiroptera) Di Kawasan Gua Lawa Karst Dander Kabupaten Bojonegoro*. Jurnal Lentera Bio Vol. 2, No.2: 143-148.
- Odum, E.P. 1994. *Dasar - Dasar Ekologi*. Edisi Ketiga. Terjemahan T. Samingan. Universitas Gadjah Mada Press. Yogyakarta.
- O'Farrel, M. and Gannon, W. L. 1999. *A Comparison of Acoustic Versus Capture Techniques for the Inventory of Bats*, Journal of Mammalogy, 80(1):24-30.
- Payne, J., Francis, C.M & Phillipps, K. 1985. *A field guide to the mammals of Borneo*. The Sabah Society with WWF Malaysia. Setiakawan Printers. Kuala Lumpur.
- Qaanitah, I., Indra, Y., Mustafa, K. 2018. *Identifikasi Kelelawar Berdasarkan Morfologi dan Morfometri di Kawasan Kampus Universitas Sriwijaya, Indralaya*. Jurnal Penelitian Sains Vol. 20 No.3: 71-76.
- Ransaleleh, T. A., Rarah R.A Maheswari, Sugita, P & Manalu, W. 2013. *Identifikasi Kelelawar Pemakan Buah Asal Sulawesi Berdasarkan Morfometri*. Jurnal Veteriner Vol.14 No. 4:485-494.
- Samodra, H. 2001. Nilai Strategis Kawasan Karst di Indonesia Pengelolaan dan Perlindungannya. *Publikasi khusus Pusat Penelitian dan Pengembangan Geologi*, 25: 1-317.
- Samodra H. 2006. Hubungan antara struktur geologi dengan pembentukan sistem pergoaan : Studi kasus di segmen karst Cigudeg. Dalam : *Manajemen*

Bioregional : Karst, masalah dan pemecahannya. Dilengkapi kasus Jabodetabek. Maryanto I, Noerdjito M dan Ubaidillah R, editor. PUSLIT Biologi. LIPI. Bogor.

Sridhar, K.R., Ashwini, K.W., Seena, S & Sreepada, K.S. 2006. Manure qualities of guano of insectivorous cave bat *Hipposideros speoris*. *Tropical and subtropical agroecosystems*. 6: 103-110.

Suhardjono, R.Y., Marwoto, R.M., Achmadi, A.S., Isnaningsih, N.R., Lopyaningdah, P., Hadiaty, R.K., Suyanto, A., Rahmadi, C., Wiantero, S., Nugroho, H., Wiowor, D & Kurniangsih. 2012. *Fauna Karst dan Gua Maros Sulawesi Selatan*. LIPI Press. Jakarta.

Suripto, B.A., Khaerudin. M. Z., & T. Jatmiko. 2001. *Keanekaragaman Jenis Kelelawar Buah (Megachiroptera) dan Pakan Almaminya di Kecamatan Kokap Kulonprogo Yogyakarta*. Skripsi S1. Fakultas Biologi. Universitas Gadjahmada.

Suyanto, A. 2001. *Kelelawar di Indonesia*. Puslitbang Biologi – LIPI. Bogor.

Suyanto, A. 2003. *Kelelawar pemakan buah dan Taman Nasional Gunung Halimu*. Zoo Indonesia, 5 (2): Hal 31 – 40.

Tan, K.H., Zubaid, A., Kunz, T.H., 1998. *Food habits of Cynopterus brachyotis (Muller) (Chiroptera: Pteropodidae) in Peninsular Malaysia*. Journal of Tropical Ecology, 14, pp.299–307.

Tittler, R., Fahrig, L., Villard, M.A. 2006. *Time-lagged correlations between wood thrush populations indicate long-distance dispersal and source-sink dynamics*. Ecology 87: 3029– 303.

Thursiana, Agustina., B. Nurdjali., Nurhaida. 2017. *Jenis Kelelawar Pemakan Buah (Pteropodidae) Di Kawasan Gua Thang Raya Kecamatan Beduai Kabupaten Sanggau Kalimantan Barat*. Jurnal Lestari, 5 (2) : 382-397.

Tuttle, M. D. 2003. Estimating population sizes of hibernating bats in caves and mines. O'Shea, T. J. and Bogan, M.A. (Ed). In: *Monitoring trends in bat populations of the United States and territories: problems and prospects*. U.S. Geological Survey. Biological Resources Division, Information and Technology Report. Washington, D.C., USA.

Utina, R & Wahyuni, D.K. 2009. *Ekologi dan Lingkungan Hidup*. Gorontalo.

Utomo, S. W., Sutriyono, R. Rizal. 2012. *Ekologi*. Modul. Universitas Terbuka. Tangerang Selatan.

Walker, E. 1964. *Mamals of the world (2 vols)* John Hopkins press. Baltimore.

- Wijayanti. 2011. *Komunitas fauna Gua Petruk dan Gua Jatijajar Kabupaten kebumen Jawa Tengah*. Tesis. Progam Pasca Sarjana Universitas Indonesia. Jakarta.
- Willis CKR & Brigham. M. 2004. *Roost switching, roost sharing and social cohesion : Forest-dwelling big brown bats, Eptesicus fuscus, conform to the fission-fusion model*. *Animal Behavior* 68: 495-505.
- Whitten T, Soeriaatmadja RE & Suraya AA. 1999. *Ekologi Jawa dan Bali*. Seri Ekologi Indonesia. Jilid II. Kartikasari SN, editor. Alih bahasa : SN Kartikasari, TB Utami & A Widianoro. Yogyakarta: Jurusan Teknik Geologi, Fakultas Teknologi Mineral UPN Veteran Yogyakarta.
- Winkelmann JR, Bonaccorso FJ & Strickler TL. 2000. *Home range of southern blossom bat, Syconycteris australis in Papua New Guinea*. *Tropical Biology*. 66: 126-132.
- Yusti, Elena. 2015. *The Fruit Bats (Megachiroptera, Pteropodidae) From Bawakaraeng Mountain, South Sulawesi*. Skripsi. Institut Pertanian Bogor.
- Qaanitah, I., Yustian, I & Kamal, M. 2018. *Identifikasi Kelelawar Berdasarkan Morfologi dan Morfometri di Kawasan Kampus Universitas Sriwijaya, Indralaya*. *Jurnal Penelitian Sains* Vol.20, No.3, Hal 70-76.
- Zhang, L, J, Gareth., P, Stuart, B, Liang, & S, Zhang, 2005, *Development of Vocalization in the Flat Headed Bats, Tylonycteris pachypus and T. robustula*, *Acta Chiropterologica*, Vol. 7. No. 1, Hal: 91-99
- Zubaid, A. 2004. *Temporal Variation in the Relative Abundance of Fruit Bats (Megachiroptera: Pteropodidae) in Relation to the Availability of Food in a Lowland Malaysian Rain Forest*. *BioTropica*, 36/4: 522-533.

LAMPIRAN

Lampiran 1. Data Populasi Kelelawar Gua Togenra berdasarkan metode Penangkapan

Waktu Pengamatan : 18.15 WITA

Jenis	Hari Pengamatan														Total	Total Keseluruhan
	01/08/20	02/08/20	03/08/20	04/08/20	05/08/20	06/08/20	07/08/20	08/08/20	09/08/20	10/08/20	11/08/20	12/08/20	13/08/20	14/08/20		
<i>R. amplexicaudatus</i>	6	5	3	0	Hujan	1	5	3	3	1	Hujan	Hujan	3	0	30	53
<i>Hipposideros sp</i>	2	5	2	2		1	0	0	1	2			1	3	19	
<i>R. celebensis</i>	0	0	3	0		1	0	0	0	0			0	0	4	
Total Harian	8	10	8	2		3	5	3	4	3			4	3		

Lampiran 2. Morfometrik Kelelawar yang tertangkap melalui jaring selama masa pengamatan di Gua Togenra, Barru

Hari/ Tanggal	Jenis	Sex	HB (mm)	T (mm)	E (mm)	FA (mm)	TB (mm)	HF (mm)	Wt (g)
Jumat, 24 Juli 2020	<i>R. amplexicaudatus</i>	Jantan	91,29	16,36	19,19	84,09	32,55	21,6	75
	<i>Hipposideros sp</i>	Jantan	94,62	42,80	22,88	95,78	33,97	19,05	50
Sabtu, 25 Juli 2020	<i>R. amplexicaudatus</i>	Betina	88,48	14,49	15,56	78,59	20,81	12,15	55
	<i>Hipposideros sp</i>	Jantan	112,16	47,91	30,14	111,03	35,04	15,52	65
Minggu, 26 Juli 2020	<i>Hipposideros sp</i>	Jantan	108,59	46,00	17,96	99,96	35,42	11,24	70
	<i>R. amplexicaudatus</i>	Jantan	114,40	16,66	17,00	75,39	30,75	19,32	75
	<i>R. amplexicaudatus</i>	Jantan	113,58	10,97	15,73	77,46	32,40	16,29	80
	<i>R. amplexicaudatus</i>	Jantan	114,44	14,47	12,35	72,08	30,89	14,22	55
	<i>R. amplexicaudatus</i>	betina	90,75	15,88	14,88	73,93	31,18	13,72	55
Senin, 27 Juli 2020	<i>R. amplexicaudatus</i>	Jantan	102,69	18,46	11,11	70,04	14,11	15,13	65
	<i>Hipposideros sp</i>	Betina	112,66	47,18	25,21	93,29	29,40	13,06	65
	<i>R. amplexicaudatus</i>	Jantan	94,01	17,47	15,27	63,50	31,49	14,84	90
	<i>Hipposideros sp*</i> anak	Betina	53,22	19,73	9,79	37,03	15,66	5,73	20
	<i>R. amplexicaudatus</i>	Betina	93,11	17,45	13,51	69,99	26,37	13,86	70
	<i>R. amplexicaudatus</i>	Jantan	118,97	12,70	11,26	69,14	21,36	15,21	90
	<i>R. amplexicaudatus</i>	Jantan	107,95	9,32	12,33	80,60	34,66	13,43	65
	<i>R. amplexicaudatus</i>	Jantan	82,31	8,57	12,53	68,66	32,59	17,25	65
Sabtu, 01 Agustus 2020	<i>Hipposideros sp</i>	Jantan	94,51	41,86	9,28	85,45	24,23	9,21	75
	<i>Hipposideros sp</i>	Betina	109,34	36,28	22,95	83,86	35,37	11,54	75
	<i>R. amplexicaudatus</i>	Betina	104,30	13,77	12,69	72,62	31,94	15,81	55
	<i>Hipposideros sp</i>	Betina	119,10	63,81	23,19	77,66	31,27	8,54	75
	<i>R. amplexicaudatus</i>	Jantan	102,03	10,80	10,23	71,94	36,79	12,18	60
	<i>Hipposideros sp</i>	Jantan	106,09	45,67	13,40	85,50	25,60	14,12	86
	<i>R. amplexicaudatus</i>	Betina	82,13	10,76	11,88	60,55	25,96	11,83	50
Minggu, 02 Agustus 2020	<i>R. amplexicaudatus</i>	Betina	99,44	14,37	9,07	77,03	27,12	15,1	70
	<i>R. amplexicaudatus</i>	Jantan	101,52	11,73	13,23	64,64	27,50	16,58	65
	<i>R. amplexicaudatus</i>	Betina	105,87	13,46	12,64	74,20	27,60	12,38	65
	<i>Hipposideros sp</i>	Betina	109,34	36,28	22,95	83,36	35,57	11,54	75
	<i>R. amplexicaudatus</i>	betina	103,11	13,69	14,28	80,61	35,98	15,61	65

Lampiran 3. Pemasangan Jaring dan Identifikasi Kelelawar di Gua Togerra, Barro



1. Pemasangan Jaring Kabut (Mist net) di depan mulut gua



2. Pelepasan Kelelawar dari Jaring



3. Proses Identifikasi kelelawar

Lampiran 4. Pengukuran Morfometrik Kelelawar di Gua Togenra, Barru



1. Bagian tubuh kelelawar



2. Bagian Ekor kelelawar



3. Bagian Lengan bawah



4. Bagian Betis Kelelawar



5. Bagian kaki belakang



6. Berat Badan kelelawar

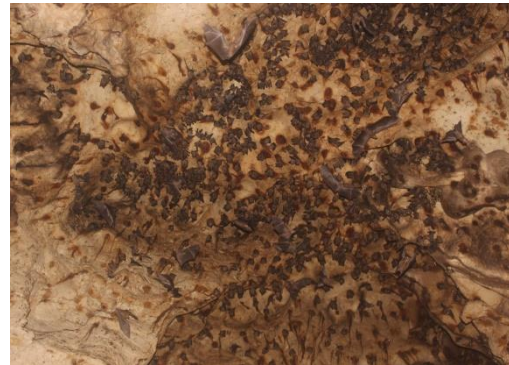
Lampiran 5. Cara penghitungan Populasi kelelewar di Gua Togenra, Barru



1. Pemasangan Jaring Kabut
Di depan mulut Gua



2. Menandai Kelelewar dengan cat



3. Foto yang dihitung di dalam gua